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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/680,757	10/06/2000	Joseph B. Rowlands	5580-00700	2137
7590 10/27/2003			EXAMINER	
Lawrence J. Merkel			VO, TIM T	
Conley, Rose & Tayon, P.C.			ART UNIT	PAPER NUMBER
P.O. Box 398			ARTUNII	PAPER NUMBER
Austin, TX 78767-0398			2189	

DATE MAILED: 10/27/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		09/680,757	ROWLANDS ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Tim T. Vo	2189		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status					
1)🛛	Responsive to communication(s) filed on ame	endment filed on 9/22/03	<u>.</u>		
2a) <u></u>	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims					
4)🖂	Claim(s) 1-6,8,10-14,16-22,24-28,30-33 and	<u>35-45</u> is/are pending in t	he application.		
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-6,8,10-14,16-22,24-28,30-33 and 35-45</u> is/are rejected.					
7) ☐ Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)□ -	The specification is objected to by the Examine	r.			
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>8</u>	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)		
U.S. Patent and Ti PTOL-326 (R		ction Summary	Part of Paper No. 12		

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### Part III DETAILED ACTION

# Notice to Applicant(s)

This application has been examined. Claims 1-6, 8, 10-14, 16-22, 24-28, 30-33, and 35-45 are pending.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-6 and 8-34 are rejected under 35 U.S.C. § **102**(e) as being anticipated by Hagersten et al. patent number 5,987,549.

As for claims 1, 10, 16, 24 and 30, Hagersten teaches a system comprising: a bus (see figure 1, bus 20);

a plurality of agents coupled to the bus (see figure 1, board 1 to board N), each of the plurality of agents configured to arbitrate for the bus (see column 5 lines 51-67, wherein each board 50 comprises an address controller 180 which includes an arbitration unit 186 for competing arbitration for sharing the bus), and wherein a

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predetermined first agent of the plurality of agents is a default winner of an arbitration if none of the plurality of agents for the bus during the arbitration (see figure 1, board 1 to board N and column 7 lines 55-67, wherein the example refers board 0 means the position of the board is in front of the board 1, 2, 3 and on. Further, the example demonstrates the round robin arbitration by making sure that one circuit board will always be a default winner when there are no requests from other boards and the default is the board 0), and wherein the arbitration scheme includes an arbitration priority of the plurality of agents (see column 7 lines 55-67), and wherein the first agent is changed from a current priority in the arbitration priority to a lowest priority in arbitration priority in response to using the bus as the default winner (see column 7 lines 55-67, wherein the default winner is board 0 when there are no requests and column 9 lines 37-41, Hagersten teaches when a board wins an arbitration, the winning board will have the lowest priority in the next state).

As for claims 2, 11, 17, 25 and 40-41, Hagersten teaches the first agent is the default winner independent of which the plurality of agents was last to use the bus (see column 7 lines 55-67).

As for claims 3, 13, 18 and 27, Hagersten teaches a plurality of request signals (see figures 4), each of the plurality of the request signals correspondingly to a respective agent of the plurality of agents and used by the respective agent to indicate whether or not the respective agent is arbitrating for the bus (see figure 4), and wherein the first agent is coupled to receive at least one of the plurality of request signals correspondingly to other ones of the plurality of agents (see figures 1, 4), and wherein

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the first agent is configured to determine if none of the plurality of agents is arbitrating responsive to the plurality of request signal (see column 7 lines 55-67).

As for claims 4-5, 12, 19-20, 26 and 32, Hagersten teaches the us is a split transaction bus including an address bus and a data bus (see figure 2, bus 20, including address bus 360, data bus 70), and wherein the first agent is the default winner of the data bus responsive to none of the plurality of agents arbitrating for the data bus (see column 7 lines 55-67).

As for claims 6, 21 and 31, Hagersten teaches wherein the first agent is configured to arbitrate for the bus if at least one other of the plurality of agent is arbitrating for the bus during the arbitration and the first agent has information to transfer on the bus (see column 7 lines 55-67).

As for claims 8, 22, 28 and 33 Hagersten teaches one or more arbiters configured to perform the arbitration (see figure 3, arbiter 186), wherein the one or more arbiters are configured to maintain a state indicative of an arbitration priority of the plurality agents, and wherein an agent winning an arbitration is changed to lowest priority in the arbitration priority (see column 9 line 38-41).

As for claims 14, 35-39 and 42-45, Hagersten teaches the arbiter comprising a storage coupled to the second circuit, the storage storing indication of the relative priority of the other ones of the plurality of agents to the first agent, and wherein the winner of the arbitration is updated to lowest priority (see figures 3-4 and column 9 lines 38-41).

### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim T. Vo whose telephone number is 703-308-5862. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 703-305-4815. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-2100.

Tim T. Vo Examiner

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T.V 10/17/03